

ABSTRACT OF THE DISCLOSURE

A water treatment apparatus is capable of dissolving an oxidizer in wastewater at a fast speed and at a high efficiency thereby to decompose substances to be treated at a high decomposition rate. The apparatus includes an ultraviolet radiation part (30) that is formed into an elongated tubular configuration, and receives therein an axially extending ultraviolet radiation unit (10) with a space formed between an inner peripheral surface (1a) thereof and said ultraviolet radiation unit (10) to pass therethrough the wastewater (4); and an oxidizer mixing part (60) disposed adjacent to and upstream of the ultraviolet radiation part (30) for mixing an oxidizer with the wastewater (4). The ultraviolet radiation unit (10) irradiates ultraviolet light to the wastewater (4) with which the oxidizer is mixed, thereby to decompose the substances to be treated in the wastewater (4).